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REPORT NO. 3

Cotton Fiber and Processing Test Results

CROP of

1976



Agricultural Marketing Service
U.S. DEPARTMENT OF AGRICULTURE
Memphis, Tenn. 38122 September 24, 1976

COTTON FIBER AND PROCESSING TEST RESULTS, CROP OF 1976

Discussion of Test Results

The average Fibrograph 2.5% span length of medium staple cottons tested from the Southwest through September 17 is shorter than a year ago, according to the Cotton Division, Agricultural Marketing Service, USDA. Samples are slightly more uniform and the average mike is finer this year. Shirley Analyzer nonlint content and picker and card waste are both higher than a year ago. Yarns spun from these samples show slightly stronger skein strength. There are fewer yarn imperfections than last year. The average spinning potential number is slightly lower this year.

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These reports are published bi-weekly during the harvesting season and will be summarized in a comprehensive report at the end of the crop year. A detailed description of the tests shown in this report may be found in the summary report for the previous season.^{1/} These reports are available on request from the Standardization Section, Cotton Division, Agricultural Marketing Service, U. S. Department of Agriculture, 4841 Summer Avenue, Memphis, TN 38122.

^{1/} Summary of Cotton Fiber and Processing Test Results, Crop of 1975.
USDA, AMS, Cotton Division, May 1976.

Table 1.--Cotton: Averages of fiber and processing tests from selected gin points in the United States through September 17, 1976 ^{1/}

Staple group Area, and Crop year	Lots tested	Fiber test results						Processing test results						Spin. Potent.
		Fibrograph		Mike fine- ness	Fiber strength		S A nonlint	P & C waste	Yarn quality					
		2.5% span	50/2.5 unif.		Zero gage	1/8" gage			Skein str.	Appear- ance	Imperf- actions			
				Pct.			Mpsi	G/tex				Pct.	Pct.	
		Inches	Rdg.											
Medium Staple: Southwest	17	1.08	45	4.4	81	22	2.7	4.5	103	102	22	60		
	19	1.06	46	4.2	81	22	3.1	6.0	105	101	18	58		
Significant dif- ference <u>2/</u>		0.02	2	0.2	2	1	0.5	0.5	4(22s)	5	2	3		

^{1/} Based on a limited number of samples of modal quality
^{2/} Minimum differences considered to be significant for comparisons in this table.

Production Area, Classification & Sample Number				Fiber Test Results							Processing Test Results - Carded Yarns									
Sample Number		Digital Fibrograph		Fiber Strength	Elon- gat'n 1/8"	S.A. Non- Lint	Color Raw Stock		P & C Waste	Strength	Elongation	Appearance Index		Imprfect'ns		Spin. Poten- tial				
		2.5% span	Unif.				Mike	Zero Gage				1/8" Gage	Gra	Yel	22s or 27 tx		50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx
No	Grade	Stple	32s	In	Pct	Rdg	Mpsi	G/tex	Pct	Pct	Lbs	Pct	Pct	No	No	No				
Name & Code																				

SOUTHWEST AREA																					
SOUTH TEXAS OANEVANG																					
41	35	1.13	47	4.1	80	23	7.3	3.6	1	3	6.1	114	39	6.4	5.0	100	80	18	14	70	
91 PERCENT DELTAPINE 16																					
ROBSTOWN																					
51	33	1.04	44	3.6	79	21	6.5	5.1	1	2	7.6	105	33	6.4	4.5	90	70	22	14	52	
95 PERCENT TAMCOT SP37																					
CENTRAL TEXAS BATESVILLE																					
41	35	1.13	46	4.1	78	22	6.5	3.6	1	4	5.8	106	37	6.5	4.9	90	70	26	17	60	
90 PERCENT STONEVILLE 213																					

1/ Reduced from 41 because of bark